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Terms	Documents
(358/ 370/471 709/200 709/203 709/219 710/100 1,15,402/).ccls.	9610

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L1 710/100;709/200,203;709/219;358;1,15,402;370/471.ccls. 9610 L1

END OF SEARCH HISTORY

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L1 and L4	8

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<u>L5</u>	l1 and L4	8	<u>L5</u>
<u>L4</u>	L3 same (receiver or target or destination)	110	<u>L4</u>
<u>L3</u>	L2 same (control\$4 near5 operation)	984	<u>L3</u>
<u>L2</u>	"electronic mail" or "e-mail"	42613	<u>L2</u>
<u>L1</u>	710/100;709/200,203;709/219;358;1,15,402;370/471.ccls.	9610	<u>L1</u>

END OF SEARCH HISTORY

EAST - [Untitled1:1]

File View Edit Tools Window Help

Drafts

Pending

Active

L1: (15533) "electronic mail"

L2: (96) 11 same (control\$4 near10 data near10 operation)

L3: (96) 12 and receive\$3

L4: (60) 12 same receive\$3

L5: (15) 14 same mode

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DBs: USPAT

Default operator: OR

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ISR form

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Text

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	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Err
1	BRS	L1	15533	"electronic mail" or "e-mail"	USPAT	2005/02/01 16:06			
2	BRS	L2	96	11 same (control\$4 near10 data near10 operation)	USPAT	2005/02/01 16:07			
3	BRS	L3	96	12 and receive\$3	USPAT	2005/02/01 16:07			
4	BRS	L4	60	12 same receive\$3	USPAT	2005/02/01 16:08			
5	BRS	L5	15	14 same mode	USPAT	2005/02/01 16:08			

Start

EAST [Untitled1:1]

EAST - [Untitled1.1]

File View Edit Tools Window Help

☐ Drafts
☐ Pending
☒ Active
 ☒ L1: (15533) "electronic mail
 ☒ L2: (96) 11 same (control\$4
 ☒ L3: (96) 12 and receiv\$3
 ☒ L4: (60) 12 same receiv\$3
 ☒ L5: (15) 14 same mode
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BRS form IS&R form Image Text HTML

	U	I	Document ID	Issue Date	Pages	Title	Current OR	Current XRef
1	<input type="checkbox"/>	<input type="checkbox"/>	US 6844938 B1	20050118	51	Electronic mail apparatus and method	358/1.15	358/402; 379/100.08
2	<input type="checkbox"/>	<input type="checkbox"/>	US 6826266 B2	20041130	50	Electronic-mail apparatus	379/100.08	358/402; 379/100.06
3	<input type="checkbox"/>	<input type="checkbox"/>	US 6778287 B1	20040817	50	Electronic mail system	358/1.15	358/402; 358/407
4	<input type="checkbox"/>	<input type="checkbox"/>	US 6614891 B2	20030902	52	Electronic-mail apparatus	379/100.13	358/402; 379/100.08
5	<input type="checkbox"/>	<input type="checkbox"/>	US 6604135 B1	20030805	22	www client server dynamic interactive system method	709/217	707/10
6	<input type="checkbox"/>	<input type="checkbox"/>	US 6493107 B1	20021210	51	Electronic mail system	358/1.15	358/402; 358/434
7	<input type="checkbox"/>	<input type="checkbox"/>	US 6477244 B2	20021105	51	Electronic-mail apparatus	379/100.08	358/402; 379/100.06
8	<input type="checkbox"/>	<input type="checkbox"/>	US 6469798 B1	20021022	51	Electronic mail apparatus and method	358/1.15	358/402; 358/442
9	<input type="checkbox"/>	<input type="checkbox"/>	US 6437873 B1	20020820	17	Internet facsimile apparatus, network system	358/1.15	358/402; 358/442
10	<input type="checkbox"/>	<input type="checkbox"/>	US 6427005 B2	20020730	55	Electronic mail system	379/100.08	358/402
11	<input type="checkbox"/>	<input type="checkbox"/>	US 6337900 B1	20020108	51	Electronic mail system	379/100.08	358/402

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☐ Check to search within this result set
Results Key:
JNL = Journal or Magazine **CNF** = Conference **STD** = Standard

1 Forget-Me-Not-controlling intercompany operations by intelligent electronic mail
Sulonen, R.; Pietikainen, P.;

System Sciences, 1990., Proceedings of the Twenty-Third Annual Hawaii International Conference on , Volume: ii , 2-5 Jan. 1990

Pages:428 - 435 vol.2

[\[Abstract\]](#)
[\[PDF Full-Text \(604 KB\)\]](#)
IEEE CNF
2 Evaluation of the protocols within the CODE mesh VSAT network
Fairhurst, G.; Glover, P.; de Bruin, F.;

Networking Aspects of Small Terminal Satellite Systems, IEE Colloquium on , Nov 1994

Pages:1/1 - 1/8

[\[Abstract\]](#)
[\[PDF Full-Text \(480 KB\)\]](#)
IEE CNF
3 Co-operative computing and control
Taylor, J.M.;

Computers and Digital Techniques, IEE Proceedings E [see also Computers and Digital Techniques, IEE Proceedings-] , Volume: 137 , Issue: 1 , Jan. 1990

Pages:1 - 16

[\[Abstract\]](#)
[\[PDF Full-Text \(1104 KB\)\]](#)
IEE JNL
4 Safe email, safe office, and safe web browser demonstration
Balzer, R.;

DARPA Information Survivability Conference and Exposition, 2003.

Proceedings , Volume: 2 , 22-24 April 2003

Pages:116 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(243 KB\)\]](#) IEEE CNF

5 Performance enhancement of digital link control using channel quality information in GPRS

Analoui, M.; Rezvani, M.H.;

Circuits and Systems, 2002. APCCAS '02. 2002 Asia-Pacific Conference on , Volume: 1 , 28-31 Oct. 2002
Pages:329 - 334 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(514 KB\)\]](#) IEEE CNF

6 Intelligent agents on the Internet and Web

Murugesan, S.;

TENCON '98. 1998 IEEE Region 10 International Conference on Global Connection in Energy, Computer, Communication and Control , Volume: 1 , 17-19 Dec. 1998
Pages:97 - 102 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(512 KB\)\]](#) IEEE CNF

7 Telecommunications Developments in the United Kingdom and Their Social Implications

Bray, W.; Reid, A.;

Communications, IEEE Transactions on [legacy, pre - 1988] , Volume: 23 , Issue: 10 , Oct 1975
Pages:1071 - 1079

[\[Abstract\]](#) [\[PDF Full-Text \(1120 KB\)\]](#) IEEE JNL

8 EXWeb: remotely operating devices in the home network

Yoshida, R.; Inoue, A.; Hiraishi, J.; Shigeno, H.; Matsushita, Y.;

Networked Appliances, 2002. Gaithersburg. Proceedings. 2002 IEEE 4th International Workshop on , 2002
Pages:267 - 274

[\[Abstract\]](#) [\[PDF Full-Text \(631 KB\)\]](#) IEEE CNF

9 System level performance evaluation of EDGE Compact

Molkdar, D.; Featherstone, W.;

Personal, Indoor and Mobile Radio Communications, 2001 12th IEEE International Symposium on , Volume: 2 , 30 Sept.-3 Oct. 2001
Pages:F-110 - F-115 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(479 KB\)\]](#) IEEE CNF

10 Global mobile N-ISDN satellite communication system

Kazama, H.; Otsu, T.; Minomo, M.;

Vehicular Technology Conference, 1998. VTC 98. 48th IEEE , Volume: 1 , 18-21 May 1998
Pages:204 - 208 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(504 KB\)\]](#) IEEE CNF

11 Department of Defense e-mail policy and government-wide e-mail initiatives

Grant, P.; Tall, A.M.;

Military Communications Conference, 1995. MILCOM '95, Conference Record, IEEE , Volume: 3 , 5-8 Nov. 1995

Pages:972 - 976 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(536 KB\)\]](#) [IEEE CNF](#)

12 Emerging technologies for the control of the Defense Red Switch Network (DRSN)

Cranfill, N.K.; Cleveland, J.R.;

Military Communications Conference, 1994. MILCOM '94. Conference Record, IEEE , 2-5 Oct. 1994

Pages:664 - 668 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(476 KB\)\]](#) [IEEE CNF](#)

13 A network environment for studying multimedia network architecture and control

Lake, R.; Pate, L.;

Global Telecommunications Conference, 1989, and Exhibition. 'Communication Technology for the 1990s and Beyond'. GLOBECOM '89., IEEE , 27-30 Nov. 1989

Pages:1232 - 1236 vol.2

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Safe email, safe office, and safe web browser demo description

Balzer, R.

Teknowledge Corp., Marina del Rey, CA, USA

This paper appears in: DARPA Information Survivability Conference and Exposition, 2003. Proceedings

Publication Date: 22-24 April 2003

On page(s): 116 vol.2

Volume: 2

ISSN:

Number of Pages: 2 vol.(xvii+315+299)

Inspec Accession Number: 7876608

Abstract:

Security wrappers for Windows NT/2000 encapsulate program execution to monitor run-time behavior and ensure that they don't do anything harmful. Wrappers are developed to ensure that email attachments can be safely opened that web content can be safely viewed, downloaded, and executed and that active content in office documents can be safely executed. The wrappers can be directed to allow the execution of **operations** that violate security rules to safely continue by virtualizing their effects so that the effects are contained within the executing process and are not visible to other process. This ensures that processes run within their prescribed security (relative to the real resources protected by that security policy) without user involvement or **control**. Violations of that security policy are automatically and transparently contained without user involvement or knowledge. This fully autonomic safety eliminates the configuration problem that has plagued existing behavior monitoring systems.

Index Terms:

[Internet](#) [electronic mail](#) [network operating systems](#) [office automation](#) [online from security of data](#) [system monitoring](#) [Web content](#) [Windows 2000](#) [Windows NT](#) [ac autonomic safety policy](#) [email attachments](#) [office documents](#) [program execution](#) [behavior monitoring](#) [safe Web browser](#) [security rules](#) [security wrappers](#)

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☐ 1. Document ID: US 20040148345 A1

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L5: Entry 1 of 8

File: PGPB

Jul 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040148345

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040148345 A1

TITLE: Event control device and digital broadcasting system

PUBLICATION-DATE: July 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Yoshii, Taketo	Hyogo		JP	
Sekiguchi, Takuya	Osaka		JP	
Tsujimura, Satoshi	Hyogo		JP	
Yamamuro, Keisei	Osaka		JP	

US-CL-CURRENT: 709/203

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 2. Document ID: US 20040107262 A1

L5: Entry 2 of 8

File: PGPB

Jun 3, 2004

PGPUB-DOCUMENT-NUMBER: 20040107262

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040107262 A1

TITLE: Method of issuing mail address and system for doing the same

PUBLICATION-DATE: June 3, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Suzuki, Shintaro	Tokyo		JP	
Fukuizumi, Takeshi	Tokyo		JP	

US-CL-CURRENT: 709/207; 709/203

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 3. Document ID: US 20040107248 A1

L5: Entry 3 of 8

File: PGPB

Jun 3, 2004

PGPUB-DOCUMENT-NUMBER: 20040107248

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040107248 A1

TITLE: Event control device and digital broadcasting system

PUBLICATION-DATE: June 3, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Yoshii, Taketo	Amagasaki-shi		JP	
Sekiguchi, Takuya	Osaka		JP	
Tsujimura, Satoshi	Kobe-shi		JP	
Yamamuro, Keisei	Osaka		JP	

US-CL-CURRENT: 709/203

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 4. Document ID: US 20020099801 A1

L5: Entry 4 of 8

File: PGPB

Jul 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020099801

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020099801 A1

TITLE: Data transmission-reception system and data transmission-reception method

PUBLICATION-DATE: July 25, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ishii, Miruka	Tokyo		JP	

US-CL-CURRENT: 709/219

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 5. Document ID: US 20020059365 A1

L5: Entry 5 of 8

File: PGPB

May 16, 2002

PGPUB-DOCUMENT-NUMBER: 20020059365
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020059365 A1

TITLE: System for delivery and exchange of electronic data

PUBLICATION-DATE: May 16, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
King, Martin	6300 Zug	MI	CH	
Rasin, Vladimir	Farmington Hills		US	

US-CL-CURRENT: 709/203

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 6. Document ID: US 20020046310 A1

L5: Entry 6 of 8

File: PGPB

Apr 18, 2002

PGPUB-DOCUMENT-NUMBER: 20020046310
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020046310 A1

TITLE: Information communications system

PUBLICATION-DATE: April 18, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Yamamuro, Keisei	Osaka		JP	
Shimoji, Tatsuya	Osaka		JP	
Kusumi, Yuki	Kashiba-shi		JP	
Nishimura, Yasushi	Osaka		JP	
Okamura, Kazuo	Kawasaki-shi		JP	
Tanaka, Yasunori	Osaka		JP	

US-CL-CURRENT: 710/100

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 7. Document ID: US 6434603 B1

L5: Entry 7 of 8

File: USPT

Aug 13, 2002

US-PAT-NO: 6434603
DOCUMENT-IDENTIFIER: US 6434603 B1

TITLE: System for task tracking and controlling electronic mail

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 8. Document ID: US 6047315 A

L5: Entry 8 of 8

File: USPT

Apr 4, 2000

US-PAT-NO: 6047315

DOCUMENT-IDENTIFIER: US 6047315 A

TITLE: System for task tracking and controlling electronic mail

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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US006844938B1

(12) **United States Patent**
Toyota et al.

(10) Patent No.: **US 6,844,938 B1**
 (45) Date of Patent: **Jan. 18, 2005**

(54) **ELECTRONIC MAIL APPARATUS AND METHOD**

(75) Inventors: Kiyoshi Toyota, Kunitachi (JP); Tatsuo Bando, Musashino (JP); Toshihisa Sawada, Inba-gun (JP)

(73) Assignee: Matsushita Electric Industrial Co., Ltd., Osaka (JP)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: 09/427,191

(22) Filed: Oct. 26, 1999

Related U.S. Application Data

(62) Division of application No. 09/205,694, filed on Dec. 4, 1998, which is a division of application No. 08/808,199, filed on Feb. 28, 1996, now Pat. No. 5,681,233.

(30) **Foreign Application Priority Data**

Mar. 6, 1995 (JP) 7-45847

(51) Int. Cl.⁷ H04M 11/00; G06F 15/00

(52) U.S. Cl. 358/1.15; 358/402; 379/100.08

(58) Field of Search 358/1.15, 1.1, 358/1.16, 1.17, 1.13, 400, 442, 444, 402, 468, 434, 440; 379/100.01

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,694,396 A * 9/1987 Weisbar et al. 364/300
 4,759,053 A 7/1988 Setomi et al.
 4,769,719 A 9/1988 Endo
 4,827,349 A 5/1989 Ogata et al.
 4,670,503 A 9/1989 Kikura
 4,941,170 A 7/1990 Herbst
 4,996,707 A 2/1991 O'Malley et al.
 5,014,192 A * 5/1991 Mansfield et al. 364/200
 5,017,917 A * 5/1991 Fisher et al. 340/14.1
 5,072,401 A 12/1991 Semsons et al.

5,091,790 A 2/1992 Silverberg
 5,115,326 A 5/1992 Burgess et al.
 5,134,501 A 7/1992 Setomi et al.

(List continued on next page.)

FOREIGN PATENT DOCUMENTS

EP 429072 5/1991
 EP 0429072 5/1991
 EP 0465011 1/1992

(List continued on next page.)

OTHER PUBLICATIONS

English Language Abstract of JP 6-217069.
 English Language Abstract of JP 58-196754.
 English Language Abstract of JP 63-211861.

(List continued on next page.)

Primary Examiner—Edward Colas
Assistant Examiner—Joseph R. Polkzywa
 (74) *Attorney, Agent, or Firm*—Greenbaum & Bernstein, P.L.C.

(57) **ABSTRACT**

An electronic mail system connected to a network includes a section for converting an image of a document surface into corresponding document image data, and a section for compressing the document image data into compression-resultant image data. The electronic mail system also includes a section for converting the compression-resultant image data into corresponding image data of a given electronic-mail format, a section for receiving information of an electronic-mail destination address, and a section for transmitting the image data of the electronic-mail format toward the electronic-mail destination address via the network. The electronic mail system may further include a section for receiving image data in an electronic mail, a section for converting the received image data into corresponding received image data of a given facsimile format, a section for expanding the received image data of the facsimile format into expansion-resultant image data, and a section for printing the expansion-resultant image data.

7 Claims, 33 Drawing Sheets





US006826266B2

(12) **United States Patent**
Toyoda et al.

(10) Patent No.: **US 6,826,266 B2**
(45) Date of Patent: **Nov. 30, 2004**

(54) **ELECTRONIC-MAIL APPARATUS**

(75) Inventors: Kiyoshi Toyoda, Kunitachi (JP); Tatsuo
Banda, Musashino (JP); Toshihisa
Sawada, Chiba (JP)

(73) Assignee: Matsushita Electric Industrial Co.,
Ltd., Osaka (JP)

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

(21) Appl. No.: 10/287,877

(22) Filed: Nov. 4, 2002

(65) **Prior Publication Data**

US 2003/0059010 A1 Mar. 27, 2003

Related U.S. Application Data

(60) Continuation of application No. 09/986,246, filed on Nov. 8,
2001, now Pat. No. 6,477,244, which is a continuation of
application No. 09/779,824, filed on Feb. 9, 2001, now Pat.
No. 6,337,900, which is a continuation of application No.
09/216,377, filed on Dec. 14, 1998, now Pat. No. 6,229,884,
which is a division of application No. 08/608,199, filed on
Feb. 28, 1996, now Pat. No. 5,881,233.

(30) **Foreign Application Priority Data**

Mar. 6, 1995 (JP) 7-45847

(51) Int. Cl.⁷ H04M 11/00

(52) U.S. Cl. 379/100.08; 379/100.06;
358/402

(58) Field of Search 379/100.01-100.02,
379/100.06, 100.08-100.09, 100.12-100.13,
100.16-100.17, 93.24, 93.08, 93.15; 709/206;
358/400, 402, 442-443, 1.15

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,058,838 A 11/1977 Crager et al. 358/425
4,694,366 A 9/1987 Weinbaum et al. 709/313

(List continued on next page.)

FOREIGN PATENT DOCUMENTS

EP	0429072	5/1991
EP	0465011	1/1992
EP	0504584	9/1992
EP	0581722	2/1994
EP	0585075	3/1994
EP	0615377	9/1994
EP	0616462	9/1994
EP	0631419	12/1994
EP	0658038	6/1995
EP	0511467	11/1995
JP	58196754	11/1983
JP	60-24771	2/1985
JP	63211861	9/1988
JP	1-89637	4/1989
JP	01179536 A	7/1989

..... H04L2/16

OTHER PUBLICATIONS

English Language Abstract of JP 5-347678.
English Language Abstract of JP 6-291902.
English Language Abstract of JP 6-164645.
English Language Abstract of JP 4-68937.
English Language Abstract of JP 7-115433.
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English Language Abstract of JP 6-350641.

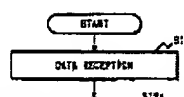
(List continued on next page.)

Primary Examiner—George Eng
(74) Attorney, Agent, or Firm—Greenbaum & Bernstein,
P.L.C.

(57) **ABSTRACT**

An electronic mail apparatus includes an electronic-mail receiver that receives electronic mail from a mail sender via a communication network, a converter that converts the electronic mail into printable image data, and a printer that prints the converted image data. Further, the electronic mail apparatus includes a processor that transmits an error message to the mail sender when electronic mail that the electronic-mail receiver receives is not applied at the electronic-mail apparatus. The electronic-mail receiver, the converter, the printer and the processor are integrated in the electronic-mail apparatus.

11 Claims, 33 Drawing Sheets





US005881233A

United States Pat nt [19]
Toyoda et al.

[11] **Patent Number:** **5,881,233**
[45] **Date of Patent:** **Mar. 9, 1999**

[54] **FACSIMILE MAIL APPARATUS**

[75] **Inventors:** Kiyoshi Toyoda; Tatsuo Bandou, both of Tokyo; Toshihisa Sawada, Chiba-ken, all of Japan

[73] **Assignee:** Matsushita Electric Industrial Co., Ltd., Osaka, Japan

[21] **Appl. No.:** 608,199

[22] **Filed:** Feb. 28, 1996

[30] **Foreign Application Priority Data**

Mar. 6, 1995 [JP] Japan 7-045847

[51] **Int. Cl.⁶** H04N 1/00

[52] **U.S. Cl.** 395/200.48; 358/402; 358/440

[58] **Field of Search** 395/200.01, 200.04, 395/200.09, 200.3, 200.48, 200.36; 358/902, 400, 405, 440; 364/514 A, 514 R

[56] **References Cited**

U.S. PATENT DOCUMENTS

4,941,170	7/1990	Herbst	358/402 X
5,115,326	5/1992	Burgess et al.	358/440
5,461,488	10/1995	Winck	
5,479,411	12/1995	Klein	358/402 X
5,499,108	3/1996	Cotte et al.	358/400

FOREIGN PATENT DOCUMENTS

0429072	5/1991	European Pat. Off.
0 581 722	2/1994	European Pat. Off.

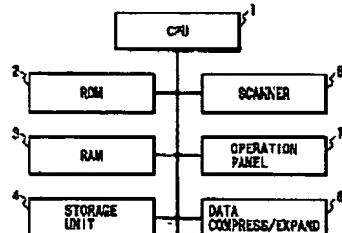
0615377	9/1994	European Pat. Off.
2172348	7/1990	Japan
03-245 655	11/1991	Japan
06-350 641	12/1994	Japan
08-022 503	1/1996	Japan
9209169	5/1992	WIPO
9403994	2/1994	WIPO
9 408 419	4/1994	WIPO

Primary Examiner—Melanie Kemper
Attorney, Agent, or Firm—Pollock, Vande Sande & Amernick

[57] **ABSTRACT**

An electronic mail system connected to a network includes a section for converting an image of a document surface into corresponding document image data, and a section for compressing the document image data into compression-resultant image data. The electronic mail system also includes a section for converting the compression-resultant image data into corresponding image data of a given electronic-mail format, a section for receiving information of an electronic-mail destination address, and a section for transmitting the image data of the electronic-mail format toward the electronic-mail destination address via the network. The electronic mail system may further include a section for receiving image data in an electronic mail, a section for converting the received image data into corresponding received image data of a given facsimile format, a section for expanding the received image data of the facsimile format into expansion-resultant image data, and a section for printing the expansion-resultant image data.

27 Claims, 33 Drawing Sheets



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L7: Entry 37 of 39

File: USPT

Dec 11, 2001

DOCUMENT-IDENTIFIER: US 6330309 B1

**** See image for Certificate of Correction ****

TITLE: Electronic mail system

Abstract Text (1):

An electronic-mail receiver, a converter, a controller, a facsimile transmitter, and an output system are integrated in a body of an apparatus. The electronic-mail receiver receives an electronic-mail including image data in an electronic-mail format. The converter converts the image data in an electronic-mail format into image data in facsimile format. The controller determines whether the received electronic-mail is directed to facsimile transmission. The facsimile transmitter negotiates with a facsimile destination, and transmits the converted image data in the facsimile format to the facsimile destination via a telephone network, when the controller determines that the received electronic-mail is directed to facsimile transmission. The printer outputs the image data in the facsimile format when the controller determines that the received electronic-mail address is not directed to facsimile transmission.

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L7: Entry 37 of 39

File: USPT

Dec 11, 2001

US-PAT-NO: 6330309

DOCUMENT-IDENTIFIER: US 6330309 B1

**** See image for Certificate of Correction ****

TITLE: Electronic mail system

DATE-ISSUED: December 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Toyoda; Kiyoshi	Kunitachi			JP
Bando; Tatsuo	Musashino			JP
Sawada; Toshihisa	Chiba			JP

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
Matsushita Electric Industrial Co., Ltd.	Osaka			JP		03

APPL-NO: 09/ 803985 [\[PALM\]](#)

DATE FILED: March 13, 2001

PARENT-CASE:

This is a continuation of U.S. application Ser. No. 09/210,377, filed Dec. 14, 1998 now U.S. Pat. No. 6,229,884 which is a division of application Ser. No. 09/608,199, filed Feb. 28, 1996, (now U.S. Pat. No. 5,881,233) the contents of which are expressly incorporated herein in their entireties.

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	7-45847	March 6, 1995

INT-CL: [07] [H04](#) [M](#) [11/00](#)

US-CL-ISSUED: 379/100.08; 379/100.09, 358/407

US-CL-CURRENT: [379/100.08](#); [358/407](#), [379/100.09](#)

FIELD-OF-SEARCH: 358/400, 358/402, 358/405, 358/434, 358/440, 358/442-443, 358/468, 358/902, 358/1.15, 358/407, 379/93.08, 379/93.15, 379/93.24, 379/100.01-100.02, 379/100.06, 379/100.08-100.09, 379/100.12-100.13, 395/200.36, 395/200.48, 709/206

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

[Search Selected](#) [Search ALL](#) [Clear](#)

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>4827349</u>	May 1989	Ogata et al.	379/100.13
<input type="checkbox"/>	<u>4941170</u>	July 1990	Herbst	379/100.07
<input type="checkbox"/>	<u>4996707</u>	February 1991	O'Malley et al.	379/100.13
<input type="checkbox"/>	<u>5115326</u>	May 1992	Burgess et al.	358/440
<input type="checkbox"/>	<u>5136291</u>	August 1992	Teague	341/83
<input type="checkbox"/>	<u>5461488</u>	October 1995	Witek	358/402
<input type="checkbox"/>	<u>5479411</u>	December 1995	Klein	358/402
<input type="checkbox"/>	<u>5499108</u>	March 1996	Cotte et al.	358/400
<input type="checkbox"/>	<u>5521719</u>	May 1996	Yamada	358/438
<input type="checkbox"/>	<u>5559721</u>	September 1996	Ishii	358/402
<input type="checkbox"/>	<u>5579126</u>	November 1996	Otsuka	358/403
<input type="checkbox"/>	<u>6124939</u>	September 2000	Toyoda et al.	358/1.15
<input type="checkbox"/>	<u>6229884</u>	May 2001	Toyoda et al.	379/100.08

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0429722	May 1991	EP	
0581722	February 1994	EP	
0615377	September 1994	EP	
0631419	December 1994	EP	
58196752	November 1983	JP	
6024771	February 1985	JP	
63211859	September 1988	JP	
1-89637	April 1989	JP	
2-69044	March 1990	JP	
2-172348	July 1990	JP	
2181550	July 1990	JP	
3245655	November 1991	JP	
5103125	April 1993	JP	
5292222	November 1993	JP	
6-30040	February 1994	JP	
06217069-A	August 1994	JP	
6250950	September 1994	JP	
6350641	December 1994	JP	
6350775	December 1994	JP	
8-22503	January 1996	JP	
92/09169	May 1992	WO	
94/03994	February 1994	WO	
94/08419	April 1994	WO	

OTHER PUBLICATIONS

An English language abstract of JP 60-24771.
An English language abstract of JP 6-30040.
An English language abstract of JP 5-292222.
An English language abstract of JP 63-211859.
An English language abstract of JP 2-69044.
An English language abstract of JP 2-181550.
An English language abstract of JP 5-103125.
An English language abstract of JP 58-196752.
An English language abstract of JP 6-250950.
An English language abstract of JP 1-89637.

ART-UNIT: 263

PRIMARY-EXAMINER: Chan; Wing F.

ASSISTANT-EXAMINER: Eng; George

ATTY-AGENT-FIRM: Greenblum & Bernstein, P.L.C.

ABSTRACT:

An electronic-mail receiver, a converter, a controller, a facsimile transmitter, and an output system are integrated in a body of an apparatus. The electronic-mail receiver receives an electronic-mail including image data in an electronic-mail format. The converter converts the image data in an electronic-mail format into image data in facsimile format. The controller determines whether the received electronic-mail is directed to facsimile transmission. The facsimile transmitter negotiates with a facsimile destination, and transmits the converted image data in the facsimile format to the facsimile destination via a telephone network, when the controller determines that the received electronic-mail is directed to facsimile transmission. The printer outputs the image data in the facsimile format when the controller determines that the received electronic-mail address is not directed to facsimile transmission.

10 Claims, 33 Drawing figures

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L7: Entry 36 of 39

File: USPT

Apr 16, 2002

DOCUMENT-IDENTIFIER: US 6374406 B2

TITLE: Reception method, reception device, transmission method, transmission device, transmission/reception method, transmission/reception device

Abstract Text (1):

An electronic mail on which a control command is interpolated is transmitted through a public line, received by a modem section of a gateway, converted to digital data, and supplied to a control section. A CPU of the control section stores the received electronic mail in a RAM, and extracts the control command contained in the electronic mail. The CPU supplies a control signal corresponding to the control command to an interface section. The interface section controls an IR transmission section to transmit a signal corresponding to the control signal supplied from the CPU or outputs a signal through a connection line, and controls a video deck.

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L7: Entry 36 of 39

File: USPT

Apr 16, 2002

US-PAT-NO: 6374406

DOCUMENT-IDENTIFIER: US 6374406 B2

TITLE: Reception method, reception device, transmission method, transmission device, transmission/reception method, transmission/reception device

DATE-ISSUED: April 16, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hirata; Shinichi	Kanagawa			JP

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Sony Corporation	Tokyo			JP	03

APPL-NO: 09/ 039922 [\[PALM\]](#)

DATE FILED: March 16, 1998

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	9-064230	March 18, 1997

INT-CL: [07] [H04 N 5/50](#), [G06 F 15/02](#)

US-CL-ISSUED: 725/132; 725/110, 709/217, 709/226

US-CL-CURRENT: [725/132](#); [709/217](#), [709/226](#), [725/110](#)

FIELD-OF-SEARCH: 348/6, 348/10, 348/12, 348/13, 348/552, 709/207, 709/218, 709/223, 709/224, 360/825.06-825.08, 360/340, 360/310.01, 725/131-132, 725/110-113, 725/151-153

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> 4713780	December 1987	Schultz et al.	709/206
<input type="checkbox"/> 4713837	December 1987	Gordon	379/106
<input type="checkbox"/> 5475835	December 1995	Hickey	395/600
5548635	August 1996	Bradley et al.	379/102

<input type="checkbox"/>				
<input type="checkbox"/>	<u>5555346</u>	September 1996	Gross et al.	706/45
<input type="checkbox"/>	<u>5565929</u>	October 1996	Tanaka	345/565
<input type="checkbox"/>	<u>5781901</u>	July 1998	Kuzma	707/10
<input type="checkbox"/>	<u>5938757</u>	August 1999	Bertsch	340/825.06
<input type="checkbox"/>	<u>5956487</u>	September 1999	Venkatraman et al.	340/825.06
<input type="checkbox"/>	<u>5905442</u>	November 1999	Moosebrook et al.	340/825.06
<input type="checkbox"/>	<u>5982445</u>	November 1999	Eyer et al.	348/461
<input type="checkbox"/>	<u>6047260</u>	April 2000	Levinson	705/9

OTHER PUBLICATIONS

(Flite, Franklin Jr.; What's Behind the Microsoft At Work Facade; Electronic Engineerin TimesO, 1994.

ART-UNIT: 2611

PRIMARY-EXAMINER: Faile; Andrew

ASSISTANT-EXAMINER: Brown; Reuben M.

ATTY-AGENT-FIRM: Oblon, Spivak, McClelland, Maier & Neustadt, P.C.

ABSTRACT:

An electronic mail on which a control command is interpolated is transmitted through a public line, received by a modem section of a gateway, converted to digital data, and supplied to a control section. A CPU of the control section stores the received electronic mail in a RAM, and extracts the control command contained in the electronic mail. The CPU supplies a control signal corresponding to the control command to an interface section. The interface section controls an IR transmission section to transmit a signal corresponding to the control signal supplied from the CPU or outputs a signal through a connection line, and controls a video deck.

12 Claims, 11 Drawing figures

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L6: Entry 82 of 90

File: USPT

Jul 16, 1996

DOCUMENT-IDENTIFIER: US 5537543 A

TITLE: Electronic mail drive type computer system and file operation method having a mail terminal operating independently of a computer system connected thereto

Abstract Text (1):

In an arrangement of a mail terminal 1, an electronic mail system 2, a job control terminal 4, and a computer system 3, a user makes a proposal of a file operation via a mail by way of the mail terminal 1. The electronic mail system 2 stores therein the proposal mail, exchanges this proposal mail with the job control terminal 4, and furthermore distributes a file operation result to the respective mail terminals. The job control terminal 4 receives a mail from the electronic mail system 2, and interprets the proposal mail, thereby executing a conversion from a mail ID into a host ID, a judgement of an access authorization with respect to the designated file, and a production of an instruction to the computer process system 3. Furthermore, an execution host computer is selected by monitoring operation conditions of the host computers. When the file operation result is sent from the computer process system 3, a mail containing this file operation result is produced, and the resultant mail is sent to the electronic mail system 2. The computer system 3 interprets a command issued from the job control terminal 4, thereby executing a reading operation from the designated file, a writing operation to the designated file, and a reading operation of a file name list.

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L6: Entry 82 of 90

File: USPT

Jul 16, 1996

US-PAT-NO: 5537543

DOCUMENT-IDENTIFIER: US 5537543 A

TITLE: Electronic mail drive type computer system and file operation method having a mail terminal operating independently of a computer system connected thereto

DATE-ISSUED: July 16, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Itoh; Tutomoto	Kanagawa-ken			JP
Hirosawa; Toshio	Machida			JP
Kokunishi; Motohide	Kokubunji			JP
Ueoka; Atsushi	Hachioji			JP
Fujita; Fujio	Yokohama			JP
Ichikawa; Yoshikazu	Fujisawa			JP
Yamagishi; Tadashi	Yokohama			JP
Ishimaru; Masahiko	Fujisawa			JP
Namba; Hideki	Hadano			JP
Nakamura; Kazuyuki	Tokyo			JP
Hirano; Michio	Chigasaki			JP
Kozuma; Kaoru	Yokosuka			JP
Sasaki; Shigeru	Kamakura			JP

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
Hitachi, Ltd.	Tokyo			JP		03
Hitachi Software Engineering Co., Ltd.	Yokohama			JP		03
Hitachi Electronics Services Co., Ltd.	Tokyo			JP		03

APPL-NO: 08/ 149553 [\[PALM\]](#)

DATE FILED: November 9, 1993

PARENT-CASE:

CROSS REFERENCE TO RELATED APPLICATION This is a continuation-in-part application of the patent application No. 08/031,729, filed Mar. 15, 1993, entitled "COMPUTER SYSTEM AND JOB EXECUTING METHOD".

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	4-063060	March 19, 1992
JP	4-300775	November 11, 1992

INT-CL: [06] [G06](#) [F](#) [15/16](#)

US-CL-ISSUED: 395/185.01; 395/800

US-CL-CURRENT: 714/48; 709/229

FIELD-OF-SEARCH: 395/575, 395/600, 395/625, 395/50, 395/800, 395/185.01

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>4520233</u>	May 1985	Smith	379/95
<input type="checkbox"/>	<u>4713780</u>	December 1987	Schultz et al.	364/514
<input type="checkbox"/>	<u>4767771</u>	September 1988	Lippmann et al.	395/200
<input type="checkbox"/>	<u>4962449</u>	October 1990	Schlesinger	395/95
<input type="checkbox"/>	<u>4992940</u>	February 1991	Dworkin	364/401
<input type="checkbox"/>	<u>5220501</u>	June 1993	Lawlor et al.	364/408
<input type="checkbox"/>	<u>5247575</u>	September 1993	Sprague et al.	380/9
<input type="checkbox"/>	<u>5256056</u>	November 1993	Turtle	395/600
<input type="checkbox"/>	<u>5379421</u>	January 1995	Palazzi, III et al.	395/600

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
64-67672	March 1989	JP	
1-108830	April 1989	JP	
1-267758	October 1989	JP	

OTHER PUBLICATIONS

Ser. No. 08/031,729 Mar. 15, 1993 T. Itoh et al.
Learning Lexis: A Handbook for Modern Legal Research, Mead Data Central (1991).
Notes on Printing and Sotring to Disk, Mead Data Central, 1991.
Westlaw Database List, West Publishing, 1994.

ART-UNIT: 243

PRIMARY-EXAMINER: Beausoliel, Jr.; Robert W.

ASSISTANT-EXAMINER: Fisch; Alan M.

ATTY-AGENT-FIRM: Fay, Sharpe, Beall, Fagan, Minnich & McKee

ABSTRACT:

In an arrangement of a mail terminal 1, an electronic mail system 2, a job control

terminal 4, and a computer system 3, a user makes a proposal of a file operation via a mail by way of the mail terminal 1. The electronic mail system 2 stores therein the proposal mail, exchanges this proposal mail with the job control terminal 4, and furthermore distributes a file operation result to the respective mail terminals. The job control terminal 4 receives a mail from the electronic mail system 2, and interprets the proposal mail, thereby executing a conversion from a mail ID into a host ID, a judgement of an access authorization with respect to the designated file, and a production of an instruction to the computer process system 3. Furthermore, an execution host computer is selected by monitoring operation conditions of the host computers. When the file operation result is sent from the computer process system 3, a mail containing this file operation result is produced, and the resultant mail is sent to the electronic mail system 2. The computer system 3 interprets a command issued from the job control terminal 4, thereby executing a reading operation from the designated file, a writing operation to the designated file, and a reading operation of a file name list.

21 Claims, 16 Drawing figures

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L12: Entry 44 of 58

File: USPT

Mar 16, 1976

DOCUMENT-IDENTIFIER: US 3944742 A

TITLE: Burst frequency shift keying data communication system

Detailed Description Text (5):

The message format as used in this example has data limited to 16 bits, but nothing fundamental imposes this as a limit either way. Thus, systems of more or less bits per message can be accommodated by corresponding design modifications, keeping in mind that short messages are to be preferred--if not required--since the essence of the system is burst mode operation from many message sources. The signal system uses a serial message clock embedded in the message format at the transmission ends, with the message being a serial stream of bits requiring use of message clock at the receiving end to demodulate the message data. Use of this system with embedding of the clock at the transmitter end eliminates lock-on or reconstruction or synchronization of the receiver clock at the detection point. With unsynchronized transmitter bursts, it also follows that the serial message clock rates are also unsynchronized and are free running, advantageously constrained only to approximately the same rate.

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L12: Entry 44 of 58

File: USPT

Mar 16, 1976

US-PAT-NO: 3944742

DOCUMENT-IDENTIFIER: US 3944742 A

TITLE: Burst frequency shift keying data communication system

DATE-ISSUED: March 16, 1976

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cunningham; Paul M.	Richardson	TX		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Spectradyme, Inc.	Richardson	TX			02

APPL-NO: 05/ 457087 [PALM]

DATE FILED: April 1, 1974

INT-CL: [02] H04L 27/10, H04B 3/50

US-CL-ISSUED: 178/66R; 178/DIG.13, 325/30, 325/31, 325/53, 325/58, 325/308

US-CL-CURRENT: 725/144; 375/272, 725/78, 725/83

FIELD-OF-SEARCH: 325/30, 325/31, 325/51-53, 325/308, 325/57, 325/58, 178/DIG.13, 178/DIG.23, 178/66R, 179/15BA, 343/201, 343/204, 343/207

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected **Search ALL** **Clear**

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>2478919</u>	August 1949	Hansell	343/207
<input type="checkbox"/>	<u>2513910</u>	July 1950	Bliss	343/201
<input type="checkbox"/>	<u>3384822</u>	May 1968	Miyagi	325/30
<input type="checkbox"/>	<u>3444320</u>	May 1969	Miyagi	178/50
<input type="checkbox"/>	<u>3471646</u>	October 1969	Magnuski et al.	179/15
<input type="checkbox"/>	<u>3472965</u>	October 1969	Blossom	179/2
<input type="checkbox"/>	<u>3485953</u>	December 1969	Norberg	179/15
<input type="checkbox"/>	<u>3833757</u>	September 1974	Kirk, Jr. et al.	178/5.6

ART-UNIT: 233

PRIMARY-EXAMINER: Griffin; Robert L.

ASSISTANT-EXAMINER: Bookbinder; Marc E.

ATTY-AGENT-FIRM: Kintzinger; Warren H.

ABSTRACT:

A communications system for transmission of low density digital data from a plurality of transmitters to a common receiver. It is a burst-mode frequency shift keying (FSK) communication system useable with a master antenna television (MATV) system that minimizes mutual interference between outputs of a large number of transmitters individually located with TV sets. The transmitters are combined with converters for transmission of programs through the system to individual TV sets as controlled by the users, and with information such as TV channel in use, room number identification, and specialized information such as completion of maid service, fire, and burglary alarms transmitted back through the system. In one system the transmitters use a carrier frequency of 12MH.sub.z, a frequency at the lower end of the passband of a coax system with FSK modulation at an equivalent switching rate of 20KH.sub.z and modulation index of 5 accepting a RF channel loading of up to 700 simultaneous users.

15 Claims, 10 Drawing figures

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L4: Entry 9 of 29

File: PGPB

Jul 3, 2003

DOCUMENT-IDENTIFIER: US 20030123083 A1

TITLE: Image forming apparatus, image forming system, image forming method, and control program

Detail Description Paragraph:

[0136] The control data for controlling the printing, for example, the number of print copies or the like is embedded into the text portion of the E-mail and the embedded E-mail is transmitted.. Therefore, the operation to download the data as a print target into the image forming apparatus the number of times corresponding to the number of print copies in the case of printing a plurality of copies as in the conventional system is unnecessary. Even in the case of a plurality of print copies, it is always sufficient to transmit the data once.

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L4: Entry 13 of 29

File: PGPB

Apr 18, 2002

PGPUB-DOCUMENT-NUMBER: 20020046310
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INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
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REPRESENTATIVE-FIGURES: 1

ABSTRACT:

The present invention provides a system capable of individually controlling each of receiving devices while making full use of the advantages of broadcasting. Simultaneous transmission is carried out from a broadcasting device 2 to a plurality of receiving devices 6 via a broadcasting path. Further, the broadcasting device 2 sends operation control data to the receiving device 6 through a communication path. The receiving device 6 changes its operation in accordance with the operation control data when received broadcasting is decoded. In this way, each of the receiver devices 6 can be controlled individually using the operation control data while making full use of the advantages of broadcasting.

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